MIDDLESEX UNIVERSITY

SCHOOL OF MEDICINE

CATALOGUE

1939-1940

WALTHAM MASSACHUSETTS

STATEMENT

The Annual Catalogue, published well in advance of the school year to which it applies, contains a condensed record of the University Faculty and of the Courses of Instruction to be offered by the various Schools and Departments; and announcements relative to the calendar, requirements for admission and graduation, fees, examinations, and rules for student conduct.

The provisions of this catalogue are not intended to be taken as a basis for the contractual relationship arising between the University and its students. The purpose of the Officers and Trustees is continuously to improve the methods and standards of instruction, and they reserve to themselves the right and responsibility of altering at any time the curriculum, requirements, teaching personnel, fees, and rules, as circumstances may require, or as they may deem to the best advantage of the University.

MIDDLESEX UNIVERSITY

Catalogue of the School of Medicine

1939-1940

WALTHAM MASSACHUSETTS

University Calendar

1939

July 10	Monday	Summer session begins.
Aug. 19	Saturday	Summer session ends.
Sept. 11 to 16	Monday to Saturday	First installment of tuition due.
Sept. 18 to 23	Monday to Saturday	Examinations for the removal of conditions.
Sept. 25	Monday	Fall Session opens.
Oct. 12	Thursday	Columbus Day. A holiday.
Nov. 11	Saturday	Armistice Day. A holiday.
Nov. 22 to 26	Wednesday to Sunday	Thanksgiving Recess.
Nov. 27	Monday	Classes resumed.
Dec. 18 to 23	Monday to Saturday	Second installment of tuition due.
Dec. 18, 1939, to Jan. 1, 1940	Christmas Vacation	

1940

Jan. 2	Tuesday	Classes resumed.
Feb. 5	Monday	Second Semester begins.
Feb. 22	Thursday	Washington's Birthday. A holiday.
Mar. 25 to 30	Monday to Saturday	Third installment of tuition due.
Mar. 25 to 31	Monday to Sunday	Spring recess.
April 1	Monday	Classes resumed.
April 19	Friday	Patriot's Day. A holiday.
May 30	Thursday	Memorial Day. A holiday.
June 8	Saturday	Seniors' Class Day.
June 9	Sunday	Baccalaureate Service.
June 10	Monday	Commencement Exercises.

Officers, Trustees, and Directors of Middlesex University

Trustees and Officers

C. Ruggles Smith
President

Frank L. Whipple
First Vice-President

John M. Russell
Second Vice-President

John Hall Smith
Treasurer

Horatio S. Card
Secretary

Mabel B. Smith
Recorder

Trustees and Directors

Joseph I. Cheskis
Howard Charles Gale
T. Vincent Campagna
Hiram B. Donaldson
Harold M. Kaplan
Charles A. P. McAree
Martin L. Macdonald
Rose F. Jannini
Harry R. Bolan
Solomon H. Gordon
Marion B. MacCormack
Hugh Wallace Smith
Edward D. Leete
Thomas J. Smith
Carl B. Lindholm

Officers of Administration

President
C. Ruggles Smith, A.B., A.M., Litt.B., LL.B.

Dean of the School of Medicine
William M. Konikov, A.B., M.D.

Dean of the Premedical Faculty
Joseph I. Cheskis, A.B., A.M., Ph.D.

University Marshal
Howard Charles Gale, A.A., S.T.B., M.D.

Counsel
John M. Russell, A.B., LL.B.

Auditor
T. Rutherford Edwards, C.P.A.

Physicians to Students
Martin L. Macdonald, M.D.
Rose F. Jannini, M.D.
Francis Licata, M.D.

Business Manager
Mabel B. Smith

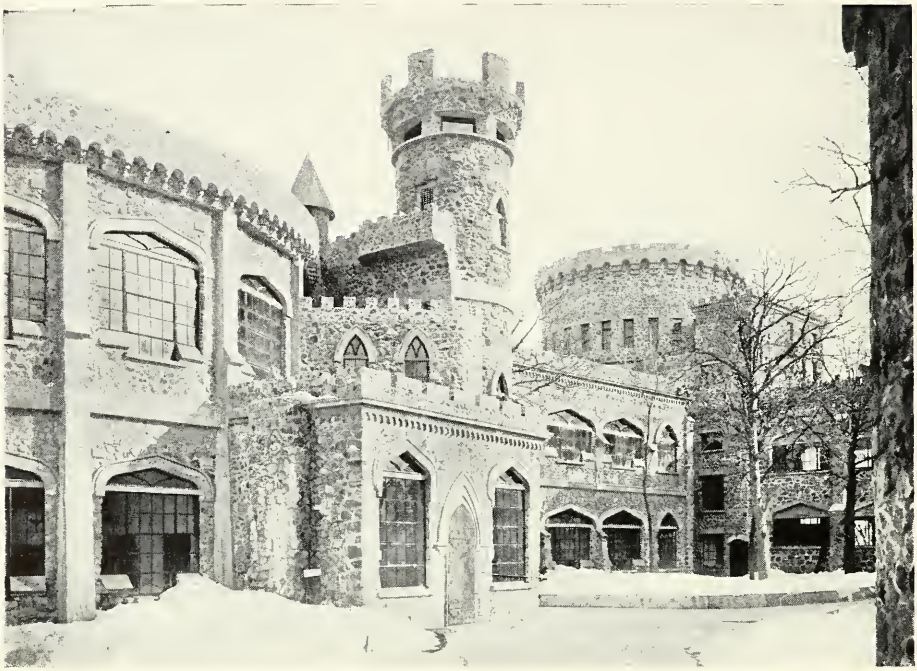
Bursar
Marjorie K. Faxon

Librarians
Mildred C. Albert
Anna Madden

Assistant to the Dean
Julia O'Leary

Middlesex Reaches to the Sky

The Watch Tower on the Administration Building on Middlesex University's hill-top campus is the loftiest structure in Waltham. To the right are laboratories and the five-story medical class-room building.



The School of Medicine

This view taken from within the quadrangle on the Waltham Campus shows the principal structures of the medical school. On the left is the Anatomy and Physiology Building, in the center the Dean's Office and the Observation Tower, to the right the Pathology and Bacteriology Laboratories, in the right background the South East Tower containing the four medical class-rooms and the Pent-House Theatre, on the far right the Pharmacology and Histology Laboratories.

Faculty of The School of Medicine

THE list of faculty, comprising the professors, associates, assistants, and instructors, in the School of Medicine, includes those engaged in teaching during the session 1938-1939, and those who have been appointed up to January 1, 1939, for the session 1939-1940. The complete list of faculty appointments for the 1939-1940 school year will not be available until September, 1939. It is anticipated that a substantial number of important additions to the faculty roster will be announced during the intervening period.

C. RUGGLES SMITH, *President* . . . *Medical Jurisprudence*
A.B., LL.B., Harvard; A.M., Litt.B., Columbia

JOHN HALL SMITH, *Professor Emeritus*
Anatomy, Clinical Surgery
M.D., University of Louisville

WILLIAM M. KONIKOV, *Dean* . . . . . *Anatomy*
A.B., Harvard; M.D., Boston University

HORATIO S. CARD . . . . . *Clinical Medicine*
A.M., M.D., Bowdoin

JOSEPH I. CHESKIS . . . . . *Bacteriology*
A.B., University of Paris; A.M., Ph.D., Harvard

EDWARD J. LEVENSON . . . . *Practice of Medicine*
A.B., Harvard; M.D., University of Rochester

HAROLD M. KAPLAN . . . . . *Physiology*
A.B., Dartmouth; Ph.D., Harvard

DAVID L. DAVIDSON . . . . . *Biochemistry*
Sc.B., Sc.M., Ph.D., Brown University

KARL LOWENTHAL . . . . . *Pathology*
M.D., University of Freiburg

GUSTAV J. MARTIN . . . . . *Pharmacology*
B.S., University of Washington; Sc.D., Johns Hopkins University

Jacques W. Goldner . . . . . *Histology*
M.D., University of Cluj

N. Ronald Brewer . . . . . *Physiology*
B.S., Michigan State; Ph.D., University of Chicago

T. Vincent Campagna . . . . . *Therapeutics*
M.D., Middlesex

Solomon H. Gordon . . . . . *Biochemistry*
B.S., Massachusetts State; Ed.M., Boston University

Rainer Zangerl . . . . . *Embryology*
Ph.D., University of Zurich

Josef Fischer . . . . . *Otolaryngology*
M.D., University of Vienna

William H. Blanchard . . . . . *Clinical Surgery*
M.D., Tufts

Edward D. Leete . . . . . *Obstetrics*
M.D., University of Pennsylvania

Isidore Green . . . . . *Neurology, Psychiatry*
M.D., Tufts

Martin L. Macdonald . . . . . *Surgery*
M.D., Middlesex

Israel Kahalas . . . . . *Medicine*
M.D., Tufts

Anthony J. West . . . . . *Surgery*
M.D., Tufts

Hyman Shrier . . . . . *Gynecology*
M.D., Tufts

John M. Russell . . . . . *Medical Jurisprudence*
A.B., Catholic University; LL.B., Harvard

Therese U. Lowenthal . . . . . *Pediatrics*
M.D., University of Berlin

Arthur Stern . . . . . *Obstetrics*
A.B. Boston University; M.D., Tufts

ANGELO L. MAIETTA . . . . . *Immunology*
M.D., Middlesex

JACOB I. ABRAMS . . . . . *Ophthalmology*
M.D., Boston University

SAMUEL KAMBERG . . . . . *Roentgenology*
M.D., Tufts

I. W. JOSSELSON . . . . . *Surgery*
M.D., Middlesex

SIEGFRIED OSTROWSKI . . . . . *Surgery*
M.D., University of Berlin

JACOB SPITZ . . . . . *Dermatology*
M.D., Tufts

SAMUEL SEGAL . . . . . *Surgery*
A.B., Harvard; M.D., Boston University

SOLOMON P. BIALOW . . . . . *Pharmacology*
Ph.G., Brooklyn College of Pharmacy; M.D., Middlesex

JULIUS RUBIN . . . . . *Anatomy*
M.D., Middlesex

N. F. DE CESARE . . . . . *Clinical Surgery*
M.D., Tufts

CECIL SMITH . . . . . *Clinical Medicine*
M.D., Middlesex

EARLE E. HUSSEY . . . . . *Clinical Surgery*
M.D., Harvard

HARRY R. BOLAN . . . . . *Clinical Medicine*
A.B., Harvard; M.D., Middlesex

LEWIS GLAZER . . . . . *Clinical Surgery*
M.D., Tufts

HENRY DIEFENBACH . . . . . *Clinical Medicine*
A.B., Columbia; M.D., Middlesex

LOUIS P. FINCLE . . . . . *Clinical Medicine*
M.D., Tufts

William Weisman . . . . . *Clinical Medicine*
M.D., Middlesex

Edward J. Dailey . . . . . *Clinical Surgery*
M.D., Tufts

James F. Collins . . . . . *Clinical Medicine*
A.B., Holy Cross; M.D., Tufts

Hugo G. Guidotti . . . . . *Clinical Medicine*
M.D., Middlesex

James Barone . . . . . *Clinical Surgery*
M.D., Tufts

Virgil Abele . . . . . *Clinical Medicine*
M.D., Middlesex

Paul A. Oskar . . . . . *Clinical Medicine*
M.D., Middlesex

Assistants and Technicians

I. Jacques Yetwin . . . . . *Bacteriology*
B.S. Rutgers; M.S., University of Chicago

Henry W. Siegel . . . . . *Physiology*
A.B., Harvard

Katherine G. Kelly . . . . . *Pathology*
A.B., Emmanuel College

Myer Perlstein . . . . . *Bacteriology*
B.S., Columbia

Harriet S. Collins . . . . . *Histology*
A.B., Radcliffe

Dorothea Tekley . . . . . *Pathology*
A.B., Tufts

Anny Zangerl . . . . . *Embryology*

History

THE history of Middlesex University may be traced on the statute books of the Commonwealth of Massachusetts. The first of its component schools was chartered in 1849, and its development into a University was made possible by a series of legislative acts and charters in 1850, 1851, 1917, 1935, and 1937. It is empowered to confer degrees in Arts, Sciences, Medicine, Veterinary Medicine, Podiatry, and Chiropody.

The charter of Middlesex University authorizes its Board of Trustees to receive and hold real or personal estate by gift, grant, devise, bequest, or otherwise, to an amount not to exceed five million dollars, and provides that the clear income of the institution shall be applied to the endowment of the University in such manner as most effectually to promote its general educational purposes.

Middlesex University has achieved a high reputation for its freedom from bigotry and intolerance, and from racial or religious discrimination. The perpetuation of this policy is assured by the terms of its charter, which provides that "No officer or instructor in said University shall ever be required by the trustees to profess any particular religious opinion as a test of office, and no student shall be refused admission to or denied any of the privileges, honors, or degrees of said college on account of the religious opinions he may entertain".

Grounds and Buildings

The ninety-six acre campus of Middlesex University, situated on wooded heights in the outskirts of Waltham, commands a view of the valley of the Charles River as it winds its course to Boston ten miles away. The rugged battlements of the Norman-Gothic group of University buildings, erected during the past ten years,

rise from a high ledge of rock, and the silhouette of their towers and parapets presents the aspect of a medieval castle. The administrative offices and library of the University, as well as the classrooms and laboratories of the College of Arts and Sciences, the School of Medicine, and the School of Veterinary Medicine, and the extensive stables and barns of the department of Animal Husbandry, are situated on the Waltham campus.

The Back Bay Building, located at 415 Newbury Street, in the heart of the professional district of up-town Boston, houses the classrooms, clinics, and laboratories of the School of Podiatry and of the School of Pharmacy. It also contains an auditorium, large enough to accommodate the entire student body of the University, and a spacious gymnasium with a basketball floor and an indoor running track.

Across the river in Cambridge is located the Middlesex Hospital, which is affiliated for teaching purposes with the School of Medicine. Seating arrangements in its modern surgical amphitheater provide space for large numbers of medical students to witness operations or other demonstrations.

Student Accommodations

The future building plans of Middlesex University call for the construction of a dormitory on the Waltham Campus. At the present time students find satisfactory living quarters within walking distance of the classrooms. Room and board may be secured with a private family at an average weekly cost of $10.00, and there are a number of conveniently located restaurants. The University maintains a list of approved rooming houses.

Scholarship and Loan Funds

The Bangs-Perrins Scholarship was founded and endowed by Dr. John Hall Smith in memory of Professor Charles Howard

Bangs and President John Perrins, both prominent in the early history of Middlesex College. The income from this fund provides a limited number of full scholarships available to both men and women, citizens of Massachusetts, in any department of the University. Applicants for these scholarships must have very high scholastic standing and must be in actual need of financial assistance. Continuance of the scholarship from one year to another depends upon the recipient's moral, social, and scholastic qualifications. All scholarship applicants must have a personal interview with the President and Dean of the respective School.

There are also available a limited number of service scholarships covering the cost of tuition. Recipients of these scholarships must have proper qualifications to serve as laboratory assistants or otherwise.

The Roger Sherman York fund for student loans makes it possible for a limited number of applicants to borrow a portion of their tuition fees, and to repay these advances during the summer vacation or after graduation.

Requirements for Admission

THE School of Medicine is co-educational, and the course leading to the degree of Doctor of Medicine is open on equal terms to both men and women. The selection of students is based upon merit and priority of date of application. Matters of race, religion, social position, and geographical distribution, are not taken into consideration in determining whether or not an applicant shall be admitted to the study of medicine.

The Committee on Admissions requires of all candidates satisfactory evidence that they have passed sufficient courses to fulfill the academic requirements for admission, and that their general qualifications are of a character fitting them for preparation to enter into the profession of medicine. No applicant is finally accepted until all of his educational records and character refer-

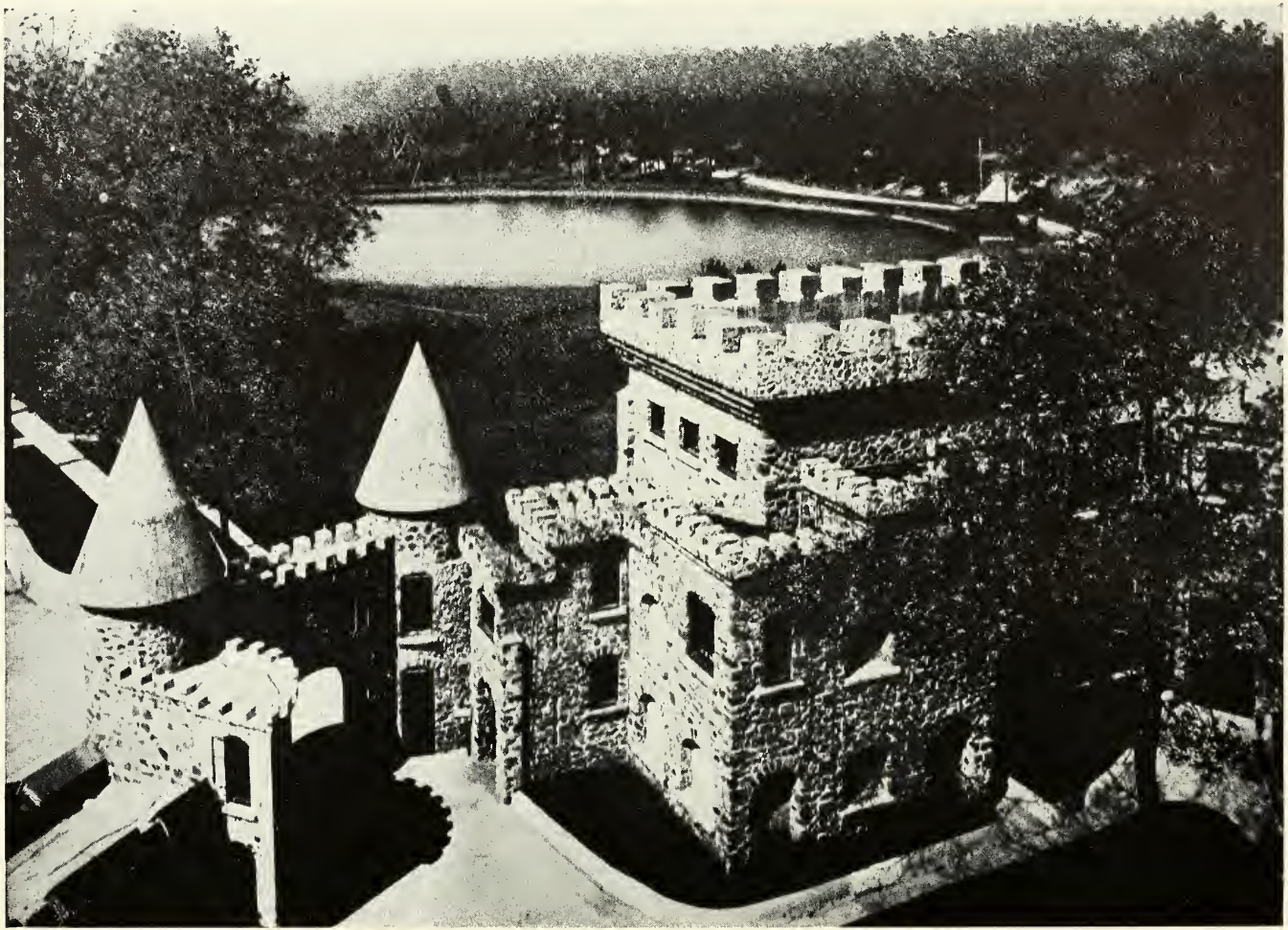
ences have been properly verified, and until he has had a personal interview.

The School of Medicine restricts admission of candidates to those who have had at least two years of premedical work in an approved college, including courses in physics, chemistry, and biology. To satisfy this minimum requirement, the applicant must have college credits for at least a year's work in inorganic chemistry, in physics, in biology, and in organic chemistry. The courses in inorganic and organic chemistry should each consist of eight semester hours, half of which should be laboratory work. The course in physics should be of not less than eight semester hours, including two of laboratory work. The course in biology should cover a minimum of eight semester hours, half of which should be devoted to laboratory work. If a candidate presents only one year's work in biology, at least one-half of that year must have been devoted to zoology. It is urgently recommended, however, that an additional four to eight semester hours of comparative anatomy be included in the premedical qualifications. Sufficient other college credits to make up at least one-half the requirement for a baccalaureate degree must be presented. These credits may be in cultural subjects, but should include courses in English, and French or German.

Candidates for admission are required to make application upon blanks which may be obtained from the office of the Registrar at the Waltham Campus. All questions contained in the application blank must be answered in full, and the applicant must file a recent unmounted photograph. The application must be submitted accompanied by a verification fee of ten dollars. The Committee on Admissions reserves the right to refuse admission to any applicant, but if any application is refused because the quota of students has already been filled, the verification fee of ten dollars will be refunded to the applicant. Credentials and photographs which are filed by candidates for admission become the property of the college, and are kept permanently in the files.

Admission to Advanced Standing

EACH year there are a number of vacancies in the second, third, and fourth year classes available for transfers from other



The Premedical Building

The Physiology Laboratory

medical schools. Applicants for advanced standing must present evidence of the successful completion of one or more years of instruction in an approved medical school with equal entrance requirements. No credit or advanced standing may be given for partially completed school years, or for years in which an applicant was unsuccessful in passing all the courses of the curriculum. In exceptional cases, however, an applicant who has been in attendance at some other medical school during the first semester of a given year may be admitted to the second semester of the same calendar year at this School.

All applicants for advanced standing must have been entitled to an honorable dismissal from the medical school previously attended. No advanced standing may be granted on credits from schools of osteopathy, dentistry, or from other than approved medical schools.

A candidate admitted to advanced standing must spend at least one year in the School, completing the regular fourth or last year of study before the degree is conferred. Before admission to such fourth year, the candidate seeking admission to advanced standing must fulfill all the conditions required of candidates for admission to the fourth year who have taken the uninterrupted course in this School.

Admission as a Special Student

Applicants whose qualifications are considered acceptable may be admitted as special students in specific courses of the medical curriculum. Special students however, will not be accepted as candidates for a degree.

Admission to Post-Graduate Courses

Graduates in medicine will be admitted to post-graduate courses of a didactic and clinical nature, which are offered by the School of Medicine in affiliation with the Middlesex Hospital. Such courses are not part of the curriculum leading to the degree of Doctor of Medicine, but are intended for physicians who are seeking instruction in the specialized fields of the profession.

Examinations and Promotion

ADMISSION to the School is for one year only, and the Trustees reserve the right to dismiss a student at any time, or to refuse readmission or promotion to any student.

The medical course extends over a period of four years, and the students are divided into four classes. Promotion from one class to another is based upon the satisfactory completion of the work of each year. A student will not be admitted to the final examinations in any course unless his class record, attendance, and laboratory work in that subject are satisfactory, and all of these elements will be considered in the determination of his final grade. Marks are given in all courses on a percentage basis, and a grade of seventy-five per cent is required to pass the course.

A student will not be allowed the privilege of final examinations, or be given his final grades in any course, until he has satisfied all of his financial obligations to the School.

The Committees on Promotion, consisting of Administrative Officers of the School and members of the Faculty, review the work of the student at the end of the first, second, and third years of the course. It is within the province of the Committees on Promotion to decide whether a student shall be promoted to the next class, shall be permitted to take further instruction in the Summer Session and examinations for the removal of conditions in September, shall be required to repeat the year's work, or shall be denied further registration in the School by reason of unsatisfactory scholarship.

In order to be promoted to the Third-Year Class, a student must have successfully passed all of the examinations in the work of the First Year, and no student shall be eligible for promotion to the Fourth-Year Class who has failed to pass satisfactorily in all the subjects of the previous years.

Students who fail to receive passing grades in the final examinations in June may, at the discretion of the Committees on Promotion, be given an opportunity to enroll in the Summer Session for further instruction in the subjects failed, and to take examinations for the removal of their conditions during the scheduled re-examination period in September before the opening of the school year. A fee of five dollars is charged for every

such re-examination. The Committees on Promotion may permit re-examination in certain instances, and in courses that do not include laboratory work, without requiring the conditioned student to enroll for further instruction in preparation for such examinations. Students who are eligible for re-examinations must make written application at least two weeks before the examinations are scheduled, and remit the required fee of five dollars for each examination.

The mere attainment of passing grades does not insure promotion. The continuance in good standing of any student is also contingent upon his faithful adherence to the rules and regulations of the School and of affiliated institutions, as well as his observance in extra-curricular activities of a moral standard appropriate to one aspiring to the medical profession.

Any student who voluntarily withdraws from the School for proper reasons forfeits his standing, but may apply for readmission in a subsequent year. If not too long a time has elapsed, and if changes in the rules of promotion or in the curriculum do not render such an admission impractical, his application should receive favorable consideration.

Discipline and Dismissal

The University reserves the right to dismiss at any time a student whose deportment or scholarship is unsatisfactory, and to refund a proportional part of the current tuition fee he has paid. Admission to the University is in all cases for one year only, and readmission may be denied without explanation.

Graduation and Degrees

CANDIDATES for the degree of *Doctor of Medicine* must possess the following qualifications:

1. The candidate must be at least twenty-one years of age and of good moral character.

2. The candidate must have fulfilled all of the requirements for admission to the School of Medicine; and he must have completed four full years of not less than thirty-two weeks in each year in an approved Medical School, of which one year must be spent in the regular Fourth-Year Class of this School.

3. The candidate must have obtained a passing grade in each subject of the curriculum, and a satisfactory record of laboratory, clinical, and maternity work.

4. The candidate must have filed satisfactory means of permanent identification, including a recent photograph.

5. The candidate must have satisfied all his financial obligations to the School, including the Graduation Fee of twenty-five dollars.

6. The candidate must have satisfied the Faculty and Trustees that he has attained proficiency in Medicine, Surgery, and Obstetrics, and that he has the mental and moral qualifications essential to the successful practice of medicine.

The degree of Doctor of Medicine *cum laude* or *magna cum laude* may be given to students of highest rating in the Fourth Year Class, on recommendation of the Committee on Graduation.

Fees and Expenses

THE cost of operating a medical school is very high. It is the policy of Middlesex University to charge as low a tuition fee as is consistent with the maintenance of proper educational standards. Tuition charges and incidental expenses in many American schools, including those operated with the benefit of large endowments, are considerably higher than the fees now charged in this institution.

The requirements of medical education are such that only a limited amount of outside work can be done by a student without seriously endangering his health or scholastic standing. For this reason prospective students are urged to postpone their matriculation until they are reasonably sure of their ability to meet the expenses of at least the first year of the medical course. If a student is obliged to drop out of school before the completion of the four-year course in order to earn sufficient funds for the continuance of his education, he may apply for a leave of absence, and every effort will be made to make a place for him, should he make application for readmission within a reasonable time.

Fees are payable only by postal money order, certified check, express money order, and telegraph order. Remittances must be made by mail, and addressed to Middlesex University, Box 310, *Waltham, Massachusetts.*

The verification fee of ten dollars is payable by all new students and should accompany the filing of the application blank. This fee is not refundable except in cases where the application is rejected through no lack of qualification of the applicant, but because no vacancy exists in the class to which admission is sought. The verification fee is payable only once, and may be credited to the student's account, should he withdraw his application and then re-apply in a subsequent year.

The matriculation fee of twenty-five dollars is payable by each candidate for admission or re-admission to the School, when he is notified that his application has been acted upon favorably by the Committee on Admissions. No place will be reserved in a class until the accepted applicant has paid this matriculation fee. This fee is payable annually and is not refundable.

The tuition fee of $410 is charged for each year of instruction in the School of Medicine. This fee is payable in three installments on the dates indicated on the University Calendar. The first installment is $135, the second $135, and the third $140. The tuition fee includes all laboratory charges except breakage, damage, and loss of apparatus. It is not subject to refund.

Any student whose installment of indebtedness to the School remains unpaid on the date fixed for final payment is deprived of the privileges of the School until he is reinstated. Reinstatement is obtained only by consent of the Board of Trustees, after payment of all indebtedness and a reinstatement fee of ten dollars. This charge of ten dollars is also payable, in the form of a late-registration fee, by all students who may be permitted to enroll in the School after the date set for payment of the first installment of the tuition.

The graduation fee of twenty-five dollars is payable by all successful candidates for the degree of Doctor of Medicine, upon notification by the Committee on Graduation.

An examination fee of five dollars is charged for the first re-examination in any subject failed. Any subsequent or special examination, except in the case of illness, is subject to a charge of ten dollars.

A student may obtain one transcript of his scholastic record without charge. A clerical fee of one dollar is required for all additional transcripts.

The expenses for text-books and equipment for the session 1938-1939 were as follows:

First-Year-Class . .	$105.00	Third-Year-Class .	$85.00
Second-Year-Class .	65.00	Fourth-Year-Class .	20.00

The amount to be charged for books and equipment for the session 1939-1940 will not be announced until after the Committee on Curriculum has acted in July. Students are required to make a deposit to cover the cost of these expenses two months before the opening of the school year, so that their equipment and books may be purchased for them and delivered during the first week of the session.

The equipment is standard, and includes sphygmomanometers, haemocytometers, haemometers, stethoscopes, and certain other instruments.

It is strongly advised that entering students provide themselves with microscopes, fitted with low, high power, and oil-immersion objectives. A limited number of students who cannot undergo the expense entailed in the purchase of a microscope may rent an instrument from the University, to be used only in the laboratories, at a cost of five dollars a course.

Living expenses in Waltham are moderate. The School maintains no dormitories, but room and board may be obtained within walking distance of the campus for an average of ten dollars a week. A list of suitable living quarters is kept on file in the Administrative Office.

Although there are ample means of transportation between Waltham and Boston by railroad, street car, and bus, most students who commute find it convenient to travel by automobile, and ample parking facilities are available at the Waltham campus, and adjoining the Back Bay Building.

New students from a distance who are unfamiliar with the city are advised to call for information and a personal interview with the Registrar at the Back Bay Building, 415 Newbury Street, Boston, before proceeding to Waltham. The telephone listing of the School is Waltham 1681, and of the Boston office, Kenmore 9630.

Medical Attendance

A MEDICAL adviser with offices in Waltham in the vicinity of the School will be available for consultation by students. He may also be seen by appointment at the Administrative Office. A routine medical examination of each member of the entering class will be made at the beginning of the academic year.

Any illness necessitating absence from class must be reported to the medical adviser. Attendance during all class and laboratory exercises is required. Students who are absent, for any considerable time, on account of illness or for other unavoidable reason must present medical certificates or other satisfactory evidence in justification of their absence.

Library

THE Library of the School of Medicine is situated in the Library Building which forms the western part of the medical quadrangle on the Waltham campus. It contains a collection of some 4,000 medical volumes, including a large number of standard modern text books. Substantial additions to the Library are being made annually. Current and past copies of the leading medical periodicals and clinical abstracts are on file. The Library is open during the school session, and a Librarian is in charge.

The Boston Medical Library, No. 8 The Fenway, is situated within four blocks of the Back Bay Building, and is open to both the Faculty and medical students. Founded in 1875, it contains the largest collection of medical books and periodicals to be found in New England, including over 160,000 bound volumes, over 100,000 pamphlets and reprints, and some 900 current periodicals. Students also have free access to the great resources of the Boston Public Library, which is also in the Back Bay section, and to the Waltham Public Library, not far from the medical campus.

Laboratories and Collections

The laboratories of the School of Medicine occupy four buildings on the Waltham campus. They are spacious and unusually well lighted, and are supplied with gas, water, electricity, and refrigeration. There are smaller rooms for special work, apparatus

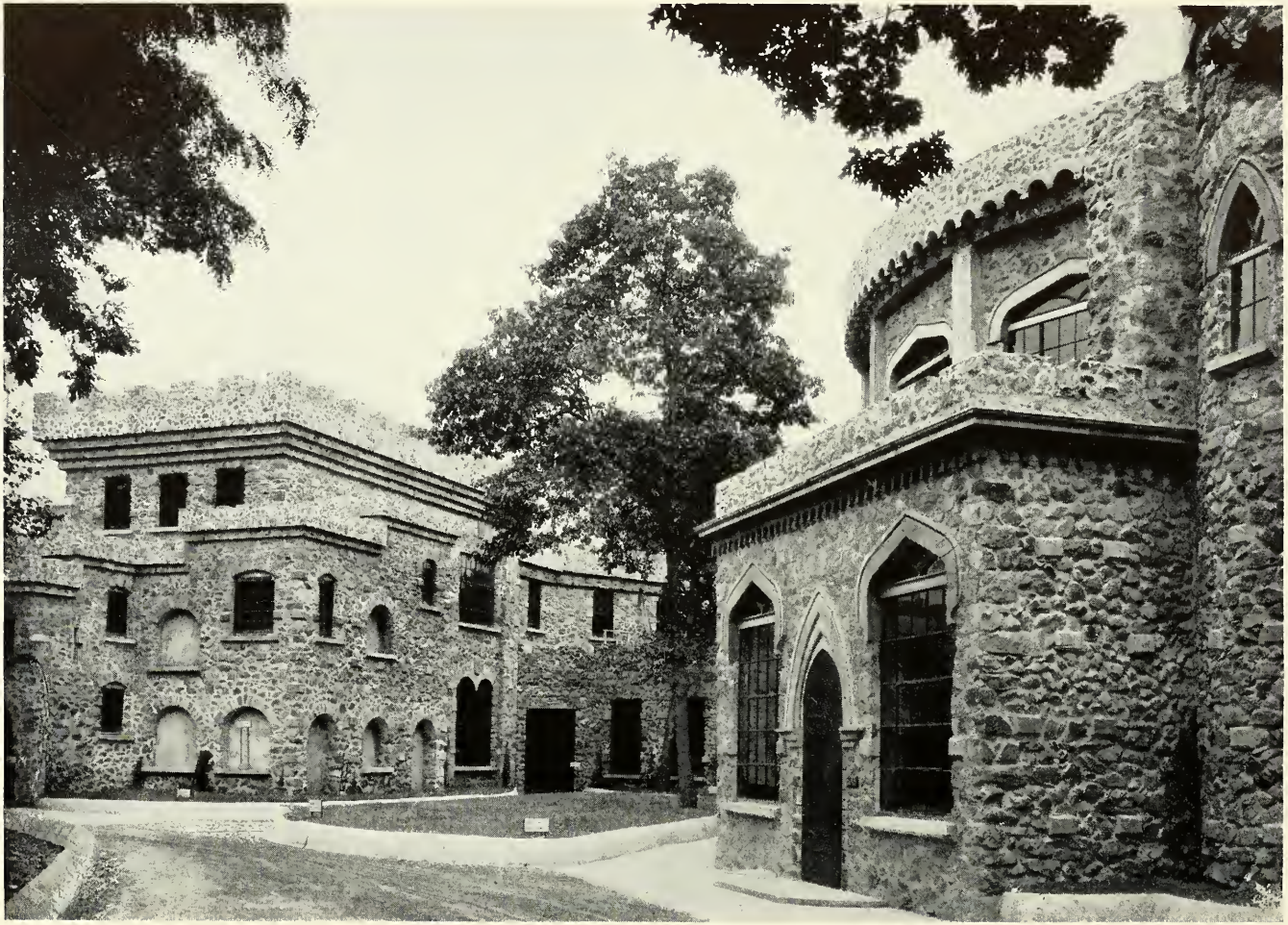
rooms, and departmental offices. Several laboratories are equipped with a large number of microscopes of the best quality, paraffin ovens, incubators, microtomes, and a full line of glassware, chemicals, and other accessories. There are available a dark room and photographic equipment with microprojection lanterns, motion picture projectors, and photomicrographic apparatus. In the anatomical museum there are assembled and displayed collections of various bones. In the pathological museum preserved specimens are available for the gross study of pathology.

Clinical Instruction

Middlesex University has affiliations for clinical teaching with a number of state, municipal, and private hospitals throughout Massachusetts. Senior students are assigned to these hospitals on a rotating schedule so as to obtain a well-rounded clinical training, in preparation for the internship to which each student is recommended immediately upon graduation from the School of Medicine.

Students receive clinical instruction at the Captain John Adams Hospital, of the Massachusetts Soldiers' Home, a state institution; all of the resident members of the hospital staff are members of the faculty of the School of Medicine. Other institutions that receive students on extern service include the Burke Memorial Hospital, a municipal institution in Lawrence; the Forest Hills General Hospital, Boston; the Irving Hospital, Framingham; the Central Hospital, Somerville; the Union Hospital, New Bedford; Clover Hill Hospital, Lawrence; St. Anne's Hospital, Fall River; the Bellevue Hospital, Brookline; the Middlesex Hospital, Cambridge; and the Freeman L. Lowell Memorial Hospital and Dispensary, Boston.

The medical students are privileged to attend many lectures, demonstrations, and special clinics, conducted in the auditoriums of many of the great hospitals and scientific institutes of greater Boston, which is the medical center of all New England.



The Quadrangle

The Medical Library and Reading Room

Courses of Instruction

Schedule of Hours

THE announcement of courses consists of a condensed statement of the general plan of instruction in each department, and a description of the didactic and practical work required during the Four-Year medical course.

The curriculum in medicine covers approximately 4,000 hours of instruction, and is designed to comply with the requirements of the Approving Authority on Medical Education of the Commonwealth of Massachusetts, and the recommendations of the associated American Medical Colleges.

The curriculum is divided into nine fields:

	No. of Hours
1. Anatomy, including Histology and Embryology	640
2. Physiology	256
3. Biochemistry	256
4. Pharmacology	150
5. Pathology, Bacteriology and Immunology	610
6. General Medicine, including Pediatrics, Neurology and Psychiatry, Dermatology and Syphilis, and Roentgenology	1,000
7. General Surgery, including Orthopedic Surgery, Urology, Ophthalmology, Otolaryngology	640
8. Obstetrics and Gynecology	225
9. Public Health and Preventive Medicine, and Medical Jurisprudence	180
Electives or Additional Clinics	100
Total	4,057

Anatomy

The courses of instruction in the Department of Anatomy constitute the ground-work for medical study and practice, and include Gross Human Anatomy, Histology, Embryology, and Neu-

ro-anatomy. Laboratory facilities and material are available not only for the required correlated courses in this field but also for advanced work and research.

Histology.—Morphology, Biology, and Physiology of the cell. Histology and functions of the tissues and organs, with reference to experimental medicine and pathological anatomy. Laboratory work includes the study of stained slides of normal human organs and tissues. Small groups of students are trained in histologic technic and are associated in collective research problems.

Embryology.—The fundamental facts of human development are presented in the form of laboratory work, gross and microscopical, accompanied by lectures, illustrated by stereopticon projection, on the development of germ layers, organ systems, and the histogenesis of some tissues. Sections of embryos of domestic animals and gross specimens of human embryos are exhibited and studied. This course is closely correlated with the lectures and laboratory work in histology. First year, first semester: 80 lectures and recitations, 160 laboratory hours. Dr. Goldner and Assistants.

Gross Anatomy.—Each student is responsible for the dissection of one half of the human body. The entire class dissects similar parts simultaneously. Loan collections of various bones are available for the study of the skeleton. The practical applications of Anatomy are stressed in the lectures. First year, first semester: Lectures, demonstrations, quizzes, and laboratory; 320 hours. Dr. Konikov and Assistants.

Neuroanatomy.—Lectures, laboratory, and microscopic work with prepared slides. Dissection of the human brain and spinal cord. The sympathetic nervous system and the organs of special sense. The lectures are coordinated with the course in Physiology. First year, second semester: 16 lectures and 32 laboratory hours. Dr. Konikov and Assistants.

Applied Anatomy.—This is a fourth-year course consisting principally of work in the dissecting room, to include a review of gross anatomy and an application of that study to clinical subjects and surgery. When sufficient anatomical material is available, opportunity is given in this course for research in gross human anatomy by selected under-graduates or by medical graduates.

Physiology

The lectures are supplemented by a study of textbooks and periodicals, and deal with the physiology of muscle, nerve, reflexes, the central nervous system, the autonomic system, the blood vascular system, respiration, digestion, secretion, absorption, metabolism, the sense organs, and reproduction. The laboratory emphasizes mammalian experimentation, general technic, gas analysis, and metabolism. First year, second semester: 64 lectures and conferences, 192 laboratory hours. Dr. Kaplan and Assistants.

Biochemistry

A study of the chemical substances and reactions involved in the physiological processes of the human body. The laboratory work includes a study of the chemical constituents of living matter and the chemical properties of carbohydrates, proteins, and fats, aspects of nutrition and the action of digestive enzymes, and elementary instruction in the methods of biochemical research. First year, second semester: 64 lectures and recitations, 192 laboratory hours. Dr. Davidson and Assistants.

Bacteriology and Public Health

Bacteriology.—This course consists of a survey of general etiology, including bacterial and parasitic causes of disease, and a study of the principles of immunity, serology, and allergy. The pathogenesis of infectious diseases is emphasized. The laboratory exercises demonstrate the procedures employed in the diagnosis of bacterial infections and are designed to familiarize the student with common pathogenic bacteria, the preparation of media, antisera, and vaccines.

Public Health.—The lectures in this course are closely correlated with the laboratory work in bacteriology and immunology, in order to emphasize those aspects of infectious diseases which relate to problems of Public Health, Hygiene, and Preventive Medicine. The communicable diseases are discussed in connection with epidemiology, administrative control, and prevention. Organized public health activities as conducted by state,

municipal, and county health agencies are demonstrated through field trips.

Immunology.—The application of immunologic principles to diagnosis, prevention and treatment of disease.

Parasitology and Tropical Medicine. — Animal parasites and human disease. Parasitic cycles. Infection and control. Pathology of the disease, and clinical diagnosis.

Pathology

General and Special Pathology.—The course is designed to teach the fundamental principles of abnormal morphology, physiology, and chemistry, and consists of laboratory work, lectures, demonstrations, and experiments. The laboratory course in pathologic histology is based upon a selected collection of microscopic slides. Gross pathology is taught with fresh and museum specimens; by demonstrations of clinical patients showing the pathology of the living; and a study of the terminal processes of disease at the autopsy table. The physiologic and anatomical changes which occur in cell tissues, organs, and systems are explained in the lectures, and the correlation between clinical and pathological findings are discussed in conferences. The student is trained in routine methods of pathological laboratory work, besides observing demonstrations of post-mortem and post-operative materials.

Clinical Pathological Conferences

Case histories are presented and autopsies and clinical findings are compared. Specimens are demonstrated and examined from the standpoint of differential diagnosis and treatment.

Pharmacology and Therapeutics

This course includes lectures and laboratory work in the related fields of Pharmacy, Pharmacology, Materia Medica, Therapeutics, and Toxicology. The physical and chemical properties and physiological actions of the more important drugs are discussed and demonstrated by actual experimentation in the laboratory. Prescription writing is studied in the classroom, and the compounding of standard pharmaceutical preparations in the laboratory. The

effects of poisons, and their identification in the stomach contents, tissues, and foods are discussed.

Medicine

Instruction in this department extends over three years of the medical course, and is designed to cover the principles of the practice of medicine and of clinical medicine. It begins in the second year with a discussion of symptomatology and physical diagnosis so presented as to acquaint the student with history taking, physical examination, and the interpretation of the clinical manifestations of disease.

During the third and fourth years of the course emphasis is shifted to the practical methods of clinical diagnosis in hospital clinics and dispensaries, where the student, through individual instruction, is taught to apply in practical work the knowledge gained from the classroom and text-books. Selected cases are demonstrated in the hospital amphitheatre. By the sub-division of the Fourth-Year Class into small sections, individual instruction in the various departments of medicine is facilitated, and direct contact with patients made possible.

Pediatrics

Instruction begins in the third year with a course of lectures, supplemented in the fourth year with clinical instruction and the amphitheatre presentation of cases. The course covers principles of infant feeding and the physiology of nutrition, the normal growth and development of children, as well as the diagnosis and treatment of the more common diseases of children, including those of a contagious nature. The preventive phase of pediatrics is emphasized.

Roentgenology

This course begins with a consideration of the fundamental principles of physics as applied to radiology and proceeds to a study of the use of the X-ray in diagnosis and treatment. Practical instruction is given in the interpretation of findings on fluoroscopic screen and films. The appearance of normal structures

and typical pathologic conditions are demonstrated in the classroom and by clinical observation in the X-ray Department of the hospital.

Dermatology and Syphilology

This course covers the etiology, symptoms, histopathology, diagnosis, and treatment of diseases of the skin, and includes a discussion of the methods of radium and roentgenray therapy. The clinical and laboratory procedures used in the treatment and diagnosis of syphilis are discussed and demonstrated.

Laboratory Diagnosis

This course deals with the significance and technique of the practical laboratory procedures which pertain to clinical diagnosis. It consists of lectures, demonstrations, and laboratory instruction in the examination of the blood, urine, sputum, stomach contents, feces, effusions, and spinal fluid.

Neurology and Psychiatry

The course in Neurology begins with a brief review of Neuro-Anatomy, and proceeds to a study of nervous diseases and neurological diagnosis with special reference to the relations of neuropathology and clinical neurology.

In Psychiatry the lectures cover the nature, cause, diagnosis, prognosis, and treatment of the various forms of mental disease. The commitment of the insane is discussed from the point of view of the medical practitioner. Clinical discussion, demonstration, and examination of the various types of mental and nervous disorders is conducted with the co-operation of the members of the staffs of various state hospitals for the insane.

Endocrinology

Histophysiology of the endocrine glands. Hormones, their physiology and pharmacology. Somato-psychic constitution in relation with endocrinology. Problems in experimental endocrinology. Syndromes and diseases. Endocrinology in its relation to social and preventive medicine.

Medical Jurisprudence

This course deals with the relationship of medicine and the law, particularly stressing the legal principles which pertain to the practice of medicine, and the legal duties and obligations of a physician. In a series of thirty-two lectures the following subjects are discussed: Medical Licensure and Causes of Revocation, Expert Testimony and the Laws of Evidence, the Contractual Relationship between Physician and Patient, the Legal Obligations of a Physician, Civil and Criminal Malpractice, False Representations, Insanity as a Defense and as a Disability, Commitment, Crimes with a Medical Aspect, Industrial Accidents and Actions of Tort, Medical Legal Aspects of Birth and Death.

Surgery

Instruction in this department begins in the second year with a systematic course dealing with the principles of surgery. In the third and fourth years consideration is given to diseases of the bones and joints, tumors, hernia, and anesthesia. Lectures and assigned study are supplemented by clinical and amphitheatre demonstrations covering asepsis, antisepsis, sterilization of the operating room materials, pre-operative treatment of patients, surgery of wounds, treatment of fractures and dislocations, and the usual surgical operations of the head, neck, thorax and abdomen. Operative surgery on the cadaver, included in the course in applied anatomy, is correlated with instruction in this department.

Students have an opportunity of assisting in private operating rooms, and of receiving practical instruction in minor surgery in outpatient clinics.

Orthopedic Surgery

The effects of infection, traumatism, habitual overstrain, and functional insufficiency upon joint structures are studied in this course, emphasis being placed upon pathology and upon the physical examination of normal and pathological joints. Treatment of diseases and deformities of the spine and extremities is discussed, and the application of casts, splints, and other methods of cure demonstrated.

The didactic lectures are supplemented by the clinical study of the more common orthopedic subjects, including deformities from infantile paralysis, arthritis, tuberculosis of the joints, osteomyelitis, and congenital deformities.

Ophthalmology

Starting with lectures in the third year, instruction in this course continues in the fourth-year clinics, with the class divided into teaching sections. Each student receives individual instruction in the use of the ophthalmoscope. External diseases of the eye and anomalies of the ocular muscles are covered in a practical way. The elements of the fitting of glasses are demonstrated and discussed.

Otology and Laryngology

This course is designed to convey by lectures in the third year, and by clinical observation and demonstrations in the fourth, a knowledge of the principal diseases of ear, nose, and throat, and includes didactic and hospital instruction in the methods of examination, diagnosis, and treatment. The student learns the use of the otoscope, the various methods of testing the hearing, and is given an opportunity to witness the more important operative procedures. The student's accomplishment of assigned textbook study is tested by classroom recitations and written quizzes.

Obstetrics

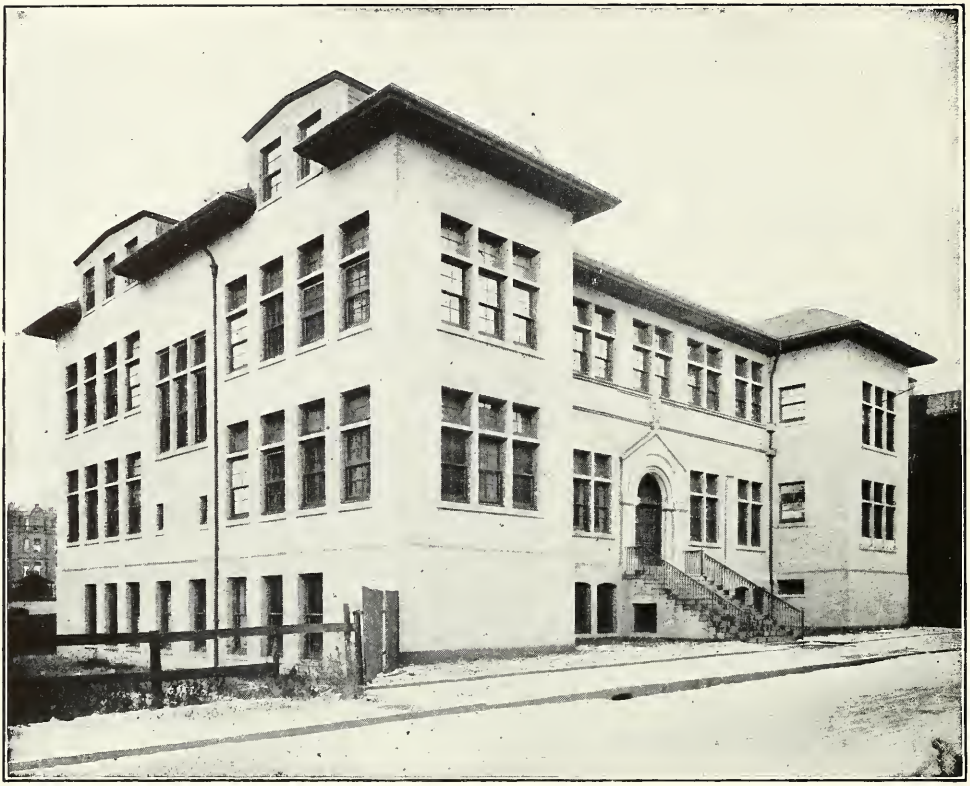
Instruction in this department is given during the third and fourth years, and includes lectures, recitations, manikin exercises, laboratory courses, and practical work and observation in the amphitheatre, delivery room, and outpatient department.

During the fourth year, each student is assigned to this department for section work, while in attendance at the prenatal clinic, and on call for deliveries in the hospital and on outpatient service.

Gynecology

Instruction is given by didactic lectures in the third year, and by clinical observation and demonstration in the fourth, in the

Pathology Laboratory



THE BACK BAY BUILDING

The auditorium of this building, which is situated in the heart of Boston's professional district, is one of the lecture halls of the School of Medicine.

general field of gynecological diseases, and the student is familiarized with the cause, diagnosis, and treatment of the more significant pathological conditions within the pelvis.

Medical Ethics and History

The purpose of this course is to outline the progress of medical science from the days of the alchemist and the midwife to modern times, emphasizing the biographies of those who have most significantly contributed to the rise of modern medical methods. Instruction is parallelled by assigned text-book study. The last few lectures deal with the ethical standards of the profession of medicine, and with the specific problems in ethics that arise in the practice of medicine.

Preprofessional Courses

The Premedical Course

MIDDLESEX COLLEGE offers a two-year premedical course designed to fulfill the requirements for admission to the School of Medicine, and the University reserves a place in the first-year class of the School of Medicine for those applicants who successfully complete the premedical course in the College of Arts and Sciences.

The two year premedical course includes the following subjects:

First Year		*Second Year*	
Subject	*Semester Hours*	*Subject*	*Semester Hours*
English	6	English	4
Chemistry	8	Physics	8
Biology	6	Chemistry	8
Modern Language	4	Biology	6
History	4	Modern Language	4
Mathematics	2	History	2
Government	2		

With the consent of the premedical adviser courses in Psychology, Economics, and Sociology may be substituted for any of the courses listed above except the basic sciences and English. The purpose of this premedical course is to provide the student with a sufficient knowledge of the fundamental natural sciences to prepare him for medical study, and in addition, to afford him an introduction to the general field of cultural study. In a two-year course emphasis must be placed upon a study of the basic sciences, and the amount of time that may be devoted to courses of an academic and cultural nature is necessarily limited. The premedical course includes 64 semester hours and covers an amount of instruction equivalent to more than one-half of the credit required for the baccalaureate degree.

The Seven-Year Combined Premedical and Medical Course

The College of Arts and Sciences, in conjunction with the School of Medicine, offers a seven-year course leading to the degrees of

Bachelor of Science and Doctor of Medicine. The first three years are spent in the College and are devoted to premedical and cultural study, and the degree of Bachelor of Science is conferred upon the successful completion of the first year of the four-year course in the School of Medicine.

The three-year premedical course includes the following subjects:

First Year

Subject	*Semester Hours*
English	6
Chemistry	8
Biology	6
Modern Language	4
History	4
Mathematics	2
Government	2

Second Year

Subject	*Semester Hours*
English	4
Physics	8
Chemistry	8
Modern Language	4
Biology	6
History	2

Third Year

Subject	*Semester Hours*
English	4
Biology	6
Chemistry	6
Economics	4
Psychology	4
Mathematics	4

With the consent of the premedical adviser courses in Sociology, Physics, Philosophy and Government may be substituted for some of those prescribed in the third year.

The catalogue of the College of Arts and Sciences contains complete information concerning the premedical courses.

Degrees

At Commencement Exercises, held at the Hamblin L. Hovey Institute, Waltham, on the thirteenth day of June 1938, the degree of Doctor of Medicine was conferred on the following candidates:

Class of 1938

Michael George Abbott . . . . . Manchester, N. Y.
Alfred University

Vincent Anthony Andoloro . . . . Everett, Mass.
B.A., Boston College

Matteo Caradonna . . . . . Everett, Mass.
Middlesex College

Sumner Carp . . . . . Dorchester, Mass.
Middlesex College

Dominic Cavalieri . . . . . East Boston, Mass.
Middlesex College

Harry Jack Cohen . . . . . Springfield, Mass.
Middlesex College

William Vito Colangelo . . . . . Long Island City, N. Y.
B.S., Villanova College

Arthur Thomas De Angelo . . . . Medford, Mass.
B.S., Tufts College

Frank Joseph DeCesare . . . . . Lawrence, Mass.
Middlesex College

Peter Leo Demeter . . . . . North Grosvenordale, Ct.
Clark University

Max Dosik . . . . . Brooklyn, N. Y.
Ph.G. Brooklyn College of Pharmacy
Brooklyn College

Patsy Charles Ferrera . . . . . Boston, Mass.
Middlesex College

David Glickman . . . . . Syracuse, N. Y.
A.B., Syracuse University

Maxwell E. Gould . . . . . Washington, D. C.
George Washington University

Morris Gorfine . . . . . Somerville, Mass.
Providence College

Melvin Lawrence Horne, *Cum Laude* . . . Roxbury, Mass.
Middlesex College

MICHAEL GEORGE IOUP . . . . . Altoona, Pa.
B.S., University of Pittsburgh

KINGSLAND EDWARD JOHNSON . . . . Fishkill, N. Y.
University of Vermont

ABRAHAM EUGENE KATEMAN . . . . New York, N. Y.
Long Island University

JOHN WILLIAM KOLOZETSKI . . . . . Lynn, Mass.
Boston University

YOU HOW LEE . . . . . Washington, D. C.
George Washington University

DAVID LEVY . . . . . Long Island, N. Y.
Middlesex College

CARMELO CHARLES MARINO . . . . . Boston, Mass.
Middlesex College

JOSEPH ORATIO MIGLIORE . . . . . Wakefield, Mass.
Middlesex College

NATHANIEL BERGER MILLER . . . . . Riverside, N. J.
A.B., Lafayette College

HARRY NEEDELMAN . . . . . Bronx, N. Y.
Long Island College, Dalhousie University

JOHN PHILIP NOONAN . . . . . Brockton, Mass.
B.A., Georgetown University

BANKIM B. RAY CHOWDHURY . . . . Bengal, India
M.B.H. Calcutta Homeopathic Medical College

LOUISE FRANCES REDA . . . . . Chicago, Ill.
Lewis Institute

VINCENT MICHAEL SARLO . . . . . Brooklyn, N. Y.
B.S., Franklin and Marshall College

NATHAN KENNETH SHAND . . . . . Waterbury, Conn.
B.S., Dalhousie University

LOUIS GERARD TORRIERI . . . . . Yonkers, N. Y.
B.S., Manhattan College

SEBASTIAN JOHN VILLANI . . . . . New York, N. Y.
B.S., Manhattan College

WILLIAM THADDEUS WALKER . . . . Greer, S. C.
B.S., Furman University

EDWARD ABRAHAM WINSTEN . . . . . Everett, Mass.
Middlesex College

MORRIS LOUIS ZUNDER . . . . . Roxbury, Mass.
Middlesex College

Students 1938-1939

Candidates for the Degree of Doctor of Medicine

Fourth-Year Class

Sidney Martin Abrams . . . . . Bronx, N. Y.
B.S., Long Island University

Daniel Atoman . . . . . Lynn, Mass.
University of New Hampshire
Middlesex College

Joseph Blank . . . . . Jamaica, N. Y.
B.S., Moravian College

Russell Francis Brodman . . . . . Philadelphia, Pa.
Ph.G., Philadelphia College of Pharmacy
B.A., Temple University

Eugene Francis Brooks . . . . . New York, N. Y.
Middlesex College

Gregory Francis Byrne . . . . . Hyde Park, Mass.
A.B., Boston College

David H. Corey . . . . . Cambridge, Mass.
A.B., Boston College

Charles F. Conway . . . . . Millville, Mass.
Ph.B., Providence College

Alfred Lott Cornwell . . . . . Bridgeton, N. J.
B.S., Dickinson College

Alexander Joseph Dalbec . . . . . Oxford, Mass.
B.A., Holy Cross College

Adrian Delerzon . . . . . Newton, Mass.
Ph.G., Massachusetts College of Pharmacy
Middlesex College

John Salvatore DeSimone . . . . . Avonmore, Pa.
B.S., University of Pittsburgh

Robert Vincent DiPasca . . . . . New York, N. Y.
A.B., Fordham University

James Francis Donnelly . . . . . New Haven, Conn.
B.S., Tufts College

John Donovan . . . . . Oswego, N. Y.
Syracuse University

Aaron Arthur Dubrow . . . . . Dorchester, Mass.
Middlesex College

VICTOR ELLIS . . . . . Dorchester, Mass.
Middlesex College

ALLEN WILLIAM ENOS . . . . . Adams, N. Y.
B.S., Cornell University

MURRAY IRWIN FEINBERG . . . . . Mattapan, Mass.
Middlesex College

STANLEY HAROLD FRANKLIN . . . . . Dorchester, Mass.
Middlesex College

MORTON MAURICE ALBERT GOLDBERG . . . New York, N. Y.
Long Island University
Dalhousie University

HERBERT GOLDMAN . . . . . Lynn, Mass.
B.S., Boston University

REUBEN GREENBERG . . . . . Bronx, N. Y.
Long Island University
University of Arkansas

FRANCIS PAUL GRZEDZINSKI . . . . . Plains, Pa.
Purdue University

ISIDORE JOSEPH GUCCIONE . . . . . Corona, N. Y.
B.S., Villanova College

CHARLES WILFRED HAUCK . . . . . Girard, Pa.
B.S., University of Pittsburgh

LEON GILBERT JACOBS . . . . . Bayonne, N. J.
B.S., Georgetown University

JOSEPH KALNA . . . . . Maltby, Pa.
B.S., Villanova College

GEORGE STAFFORD KERR . . . . . Baton Rouge, La.
B.S., Lousiana State University

HERBERT KORENBLITT . . . . . Somerville, Mass.
Middlesex College

LOUIS LEVINE . . . . . Brooklyn, N. Y.
Long Island University

ERIC CHARLES LOTH . . . . . Elizabeth, N. J.
B.S., Bowdoin College

JOHN JOSEPH LOUGHLEN . . . . . Olean, N. Y.
A.B., Cornell University

RALPH MAXWELL MACMILLAN . . . . . Brooklyn, N. Y.
B.S., Long Island University

DONALD FRANCIS MCENROE . . . . . Whitman, Mass.
Harvard University
Middlesex College

BERNARD FRANCIS MCKERNAN . . . . . Yonkers, N. Y.
A.B., Fordham University

PETER PAUL MCKINNIS . . . . . Lawrence, Mass.
Northeastern University
Middlesex College

SANTO VINCENT MACCHIA . . . . . Medford, Mass.
Middlesex College

ALFONSO CHARLES MANDRACHIA . . . . . Everett, Mass.
B.S., Tufts College

EDWARD JOHN MATEJEWICZ . . . . . Newark, N. J.
B.A., New York University

MILTON SONNIEL MONYEK . . . . . Elizabeth, N. J.
Middlesex College

FRANK DONALD NAPOLITANI . . . . . New York, N. Y.
B.A., University of Alabama

THOMAS FRANCIS O'BRIEN . . . . . Mineville, N. Y.
B.A., Holy Cross College

LOUIS GERARD PELLETTIERI . . . . . Yonkers, N. Y.
B.S., Manhattan College

MYER MAC PERLSTEIN . . . . . Brooklyn, N. Y.
B.S., Columbia University

EDMUND STANLEY PISZCZEK . . . . . Plymouth, Pa.
Villanova College

FRANCIS LYONS PLOUFF . . . . . Mishawaka, Ind.
B.S., Purdue University

DANIEL ANTHONY PORRECA . . . . . Philadelphia, Pa.
B.S., Villanova College

HARRY ALVIN PRESS . . . . . New York, N. Y.
A.B., College of City of New York

THOMAS RINALDI . . . . . Schenectady, N. Y.
B.S., Fordham University

PETER ROSANELLI . . . . . Brooklyn, N. Y.
B.A., Colgate University

PAUL ROTHENBERG . . . . . Brooklyn, N. Y.
New York University
Dalhousie University

ARTHUR ALOYSIUS RYAN . . . . . Jersey City, N. J.
B.S., Fordham University

WILLIAM G. D. SCALES . . . . . Dunellen, N. J.
B.S., Johnson C. Smith University

ROBERT SCHWARTZ . . . . . Dorchester, Mass.
Middlesex College

GUY FRANCIS SCIACCA . . . . . Boston, Mass.
Middlesex College

THEODORE SHANE . . . . . Mattapan, Mass.
Middlesex College

DANIEL JOSEPH SHEMPA . . . . . Hyde Park, Mass.
Middlesex College

LEONARD VICTOR SHORT . . . . . Tewksbury, Mass.
B.S., Tufts College

WILLIAM E. SORRELL . . . . . Bronx, N. Y.
B.S., New York University
M.A., Columbia University

PASQUALE ROCCO TEDESCHI . . . . . Newton, Mass.
Tufts College

ANTHONY JAMES TERRANOVA . . . . . Fulton, N. Y.
Syracuse University

RUSSELL FRANCIS THOMPSON . . . . . Abington, Mass.
Middlesex College

FRANKLYN EDWARD VERDON . . . . . Millburn, N. J.
A.B., Catholic University

ABRAHAM DAVID WEINTRAUB . . . . . New York, N. Y.
San Bernardino Junior College
Riverside Junior College, University of Redlands

JOSEPH WIESENTHAL . . . . . New York, N. Y.
University of Vienna

LEO U. ZAMBON . . . . . South Ryegate, Vt.
University of Vermont

Third-Year Class

PHYLLIS MADINE ABBOTT . . . . . Auburn, Me.
A.B., Randolph-Macon Woman's College

JOSE OSCAR AFANADOR . . . . . Puerto Rico
University of Puerto Rico,
St. John's University

LOUIS JAMES BADIA . . . . . New Rochelle, N. Y.
Ph.G., B.S., Fordham University

GEORGE A. CAMERON . . . . . New York, N. Y.
B.S., Johnson C. Smith College

RAYMOND GERARD CANNON . . . . . Bellerose, N. Y.
Elon College

EDWARD MILAN CARDILLO . . . . . Everett, Mass.
A.B., Boston College

JACK STANLEY CARP . . . . . Manchester, N. H.
Massachusetts College of Pharmacy
Middlesex College

JOHN QUINN CLARK . . . . . Providence, R. I.
Ph.B., Providence College

SIMON COHEN . . . . . Mattapan, Mass.
Middlesex College

EDWARD DOWNER CROISSANT . . . . . West Medford, Mass.
Tufts College

EDMUND VINCENT DENTE . . . . . Somerville, Mass.
Middlesex College

ROBERT EDWARD DONOVAN . . . . . New York, N. Y.
Notre Dame College, Columbia University
Fordham University

THEODORE GILBERT ECHLOV . . . . . Mattapan, Mass.
A.B., Harvard University

THEODORE EHOUSE . . . . . Bridgeport, Conn.
Catholic University
George Washington University

MAX ETTENBERG . . . . . Cambridge, Mass.
Middlesex College

SAMUEL WALLACE FLEMING . . . . . Jamesville, N. C.
University of North Carolina

ALBERT G. FLYNN . . . . . Baton Rouge, La.
Louisiana State College

NOBLE R. FRISBY . . . . . Washington, D. C.
B.S., Howard University

ROBERT CHARLES GAUDREAU . . . . . Indian Orchard, Mass.
A.B., Assumption College

WILLIAM M. GIANQUINTO . . . . . Brooklyn, N. Y.
A.B., Ohio University

ROSARIO GULLO . . . . . Buffalo, N. Y.
B.S., Canisius College

WILLIAM THOMAS HARRINGTON . . . . . Everett, Mass.
Ph.B., Boston College

WENDELL BURKE HARRIS . . . . . Brockton, Mass.
Middlesex College
Wilberforce University

LAWRENCE SEYMORE HIRSCH . . . . . Buffalo, N. Y.
University of Buffalo

EMIL LEHR . . . . . Montclair, N. J.
Long Island University

MASHE UDA LABE LIGHTMAN . . . . Lowell, Mass.
A.B., Bates College

DANIEL G. LIPMAN . . . . . Brooklyn, N. Y.
Long Island University
Dalhousie University

SIMON MORRIS LIPTON . . . . . Miami, Fla.
B.S., University of Florida

JOHN ANTHONY MASTROMARINO . . . . Revere, Mass.
Middlesex College

JOHN E. MCCLUSKY . . . . . Providence, R. I.
B.S., Fordham University

JOHN GEORGE MORIN . . . . . Newark, N. J.
B.S., Villanova College

FLOYD A. NASSIF . . . . . Cedar Rapids, Iowa
B.S., State University of Iowa

CHESTER LEONARD NAYFIELD . . . . . Mt. Carmel, Pa.
B.S., Bucknell University

GEORGE EMIL PAGLIARULO . . . . . Boston, Mass.
Middlesex College

GEORGE POVEY PARTON, JR. . . . . Chevychase, D. C.
B.S., Catholic University

CARMINE PAULANTONIO . . . . . New York, N. Y.
B.S., Fordham University

SAVERIO PICCERI . . . . . Boston, Mass.
Middlesex College

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B.A., Wesleyan College

EVERETT SIMON RADOVSKY . . . . . Fall River, Mass.
B.S., Rhode Island State College

LOUIS S. RICCARDI . . . . . Brooklyn, N. Y.
A.B., University of North Carolina

FRANK CENTURIO ROMANO . . . . . East Greenwich, R. I.
B.S., Villanova College

RUDOLPH SALVATORE ROMANO . . . . East Greenwich, R. I.
B.S., Villanova College

HENRI P. J. SAINT HILLE . . . . . Cap Haitien, Haiti
B.S., Wilberforce University

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A.B., Syracuse University

Walter Robert Schur . . . . . Webster, Mass.
Valparaiso University

Julian Robert Seide . . . . . New York City
New York University
Middlesex College

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B.S., New York University

Warren Grant Snyder . . . . . Wilmington, Del.
B.S., Baldwin-Wallace College

Julian N. Speigel . . . . . Spartanburg, S. C.
B.S., Wofford College

Louis Strauss . . . . . Roxbury, Mass.
Ph.G., Massachusetts College of Pharmacy
B.S., Middlesex College

Isaac Joseph Tender . . . . . Paulsboro, N. J.
B.S., Gettysburg College

Kenneth Harrison Willard . . . . . Framingham, Mass.
B.S., Tufts College

Isidore Jacques Yetwin . . . . . Elizabeth, N. J.
B.S., Rutger's University
S.M., University of Chicago

Richard Francis York . . . . . Richmond Hill, N. Y.
Niagara University

Second-Year Class

Eli Abrams . . . . . Roxbury, Mass.
B.S., Boston University

Samuel Louis Aspis . . . . . New York, N. Y.
B.S., College of the City of New York

Joseph Atanasio . . . . . Brooklyn, N. Y.
B.S., Franklin and Marshall College

John James Barry . . . . . Medford, Mass.
B.A., Holy Cross College

James D. Beaton . . . . . Oyster Bay, N. Y.
B.S., Manhattan College

Milton Berger . . . . . New York, N. Y.
B.A., University of Michigan

Milton Berlad . . . . . New York, N. Y.
B.A., M.A., University of Richmond

Joseph Berman . . . . . Edgemere, N. Y.
Long Island University

Bruno Joseph Bevivino . . . . . Brooklyn, N. Y.
A.B., Tufts College

Louis Lawrence Bluestein . . . . . Lynn., Mass.
Long Island University

Edward Charles Carr . . . . . Waterbury, Conn.
B.S., Fordham University

Joseph Cerniglia . . . . . Chicago, Ill.
Loyola University

Kenneth Cohen . . . . . Lynn, Mass.
Massachusetts State College
Middlesex College

Nathan William Coleman . . . . . Roxbury, Mass.
B.A., Brown University

Dante Paul Colitti . . . . . New York, N. Y.
B.S., Manhattan College

Stanley Frank Debski . . . . . Brooklyn, N. Y.
B.S., St. Bonaventure College

John Pershing DeCicco . . . . . Worcester, Mass.
Middlesex College

Francis Thomas DeStefano . . . . . Roxbury, Mass.
Boston College
St. Anselm's College

Charles Di Giacomo . . . . . South Boston, Mass.
Tufts College

Guy Alfred DiStasio . . . . . Revere, Mass.
Ph.G., Massachusetts College of Pharmacy
B.S., Middlesex College

William Dorfman . . . . . Hoboken, N. J.
A.B., Duke University

George C. Dowd . . . . . Worcester, Mass.
A.B., Harvard University

Nicholas Joseph Esposito . . . . . Troy, N. Y.
A.B., Union College

Harry Finkelman . . . . . Portland, Me.
A.B., Brown University

Jacob Freedman . . . . . Haverhill, Mass.
Middlesex College

Giobert Giangregorio . . . . . E. Boston, Mass.
B.S., Tufts College
M.Ed., Boston University

Sidney Goldman . . . . . Roxbury, Mass.
Middlesex College

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B.S., Long Island University

GAETANO GUY GRANDE . . . . . E. Boston, Mass.
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SIDNEY KANOWITZ . . . . . Chester, Mass.
A.B., Clark University

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B.S., Long Island University

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Villanova College
Temple University

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Ph.G., Massachusetts College of Pharmacy
B.S., Middlesex College

MARTIN EUGENE LASOFF . . . . . Brooklyn, N. Y.
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Union College

JOHN WILLIAM LINGOS . . . . . Boston, Mass.
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B.S., M.A., Ohio State University

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Long Island University

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JAMES LELAND MENGES . . . . . Everett, Mass.
Tufts College
Middlesex College

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RALPH ELI OSTROFSKY . . . . . Mattapan, Mass.
B.A., University of West Virginia

VINCENT JOSEPH PANVINI . . . . . New York, N. Y.
B.S., Fordham University

SYDNEY SANFORD PARKER . . . . . Dorchester, Mass.
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NATALE ROBERT PETRELL . . . . . Somerville, Mass.
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University of Cincinnati

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B.S., Massachusetts State College

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A.M., Harvard University

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Sigmund John Szydlowski . . . . . Wakefield, Mass.
B.S., Tufts College

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Villanova College

Sidney Leo Yellowitz . . . . . Dorchester, Mass.
B.A. Depauw University

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B.S., American International College

First-Year Class

Daniel David Alexander . . . . . Norwich, Conn.
A.B., Brown University
A.M., University of Michigan

Mario Donald Aloysius . . . . . Tuckahoe, N. Y.
College of the City of New York
Fordham University

Wallace James Baker . . . . . Plattsburg, N. Y.
B. S., University of Vermont

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A.B., New York University

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Long Island University

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Middlesex University

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University of Bern

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B.S., University of Kentucky

JAMES GLENN BOGGS . . . . . Hazard, Kentucky
A.B., Kentucky Wesleyan College

CHARLOTTE LADYSTOWS BONCZKOWSKI . . . Chicago, Ill.
Lewis Institute

WILLIAM LEON BRODMAN . . . . . Glenside, Pa.
Temple University

FRANCIS PATRICK CAVANAUGH . . . . . Brookline, Mass.
St. Bonaventure College

PASQUALE JOSEPH CICCONE . . . . . Little Falls, N. J.
A.B., New York University

WILLIAM THOMAS COFFEY . . . . . Medford, Mass.
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B.S., Fordham University

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University of Alabama

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A.B., University of North Carolina

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A.B., University of Alabama

EDWIN EPSTEIN . . . . . Centreville, Md.
B.S., University of Maryland

WALTER NATHAN EPSTEIN . . . . . Dorchester, Mass.
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A.B., Pennsylvania State College

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A.B., New York University

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ARTHUR FREDERICK GEISS . . . . . Syracuse, N. Y.
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Middlesex University

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MAX MORRIS GREENBERG . . . . . Mattapan, Mass.
State University of Iowa

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University of Alabama

WILLIAM J. GROTE, JR. . . . . Yonkers, N. Y.
B.S., Fordham University

AMOS JAMES GUARENTE . . . . . Medford, Mass.
B.S., Boston College

ANGELO GUCCIONE . . . . . Corona, N. Y.
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HOMODE HABHAB . . . . . Fort Dodge, Iowa
A.B., University of Iowa

WILLIAM HAMBLEN . . . . . Norwell, Mass.
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University of Alabama

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Middlesex University

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University of Pittsburgh
University of St. Louis

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BERNARD SINGLETON HUGHES . . . . . New York, N. Y.
A.B., Lincoln University

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B.S., University of Vermont

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B.S., Lafayette College

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A.B., Tougaloo College

LEO KARRON . . . . . Brooklyn, N. Y.
State University of Iowa

ALAN LAURENCE KAUFMAN . . . . . Brookline, Mass.
B.S., Franklin and Marshall College

LOUIS KUNIAN . . . . . Lynn, Mass.
Amherst College
B.S., St. Bonaventure College

DOMINICK JOSEPH LACOVARA . . . . . Brooklyn, N. Y.
B.S., Long Island University

VICTOR EMANUEL LANDRY . . . . . Baton Rouge, La.
B.S., Louisiana State University

BENJAMIN ELI LAZOW . . . . . Philadelphia, Pa.
A.B., Temple University

JOSEPH WILFRED LEMIRE . . . . . Holyoke, Mass.
A.B., Assumption College

LESTER LEVINE . . . . . New York, N. Y.
A.B., New York University

ELIOT LUBELL . . . . . New York, N. Y.
New York University

JOSEPH LUMIA . . . . . Brooklyn, N. Y.
Ph.G., St. John's University
B.S., Middlesex University

JULIAN ROMAN MACIEROWSKI . . . . . Boston, Mass.
A.B., Boston College

MICHAEL MANOOGIAN . . . . . Worcester, Mass.
A.B., Clark University

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B.S., Fordham University

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B.S., Boston University

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B.S., Rutgers University

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B.S., Franklin and Marshall College

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Middlesex University

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A.B., New York University

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B.S., Long Island University

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Northeastern University
Middlesex University

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Long Island University

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B.S., Columbia University

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Villanova College

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Middlesex University

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American International College
Middlesex University

HARRY SCHWARTZ . . . . . Baltimore, Md.
B.S., University of Maryland

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A.B., Pennsylvania State College

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Georgetown University
Fordham University

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A.B., Harvard University

JACOB SIEGEL . . . . . New York, N. Y.
B.S., Long Island University

JACK HIRSH SKELSKI . . . . . Dorchester, Mass.
Middlesex University

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A.B., New York University

GEORGE SULMEYER . . . . . New York, N. Y.
B.S., College of the City of New York

ANTHONY ADOLPH SURVIL . . . . . Baltimore, Md.
B.S., University of Maryland

MORTON SWARTZ . . . . . Arlington, Mass.
B.S., Tufts College

HARVEY SYLVESTER . . . . . Somerville, Mass.
Middlesex University

PETER FRANKLIN TITUS . . . . . Watertown, Mass.
Middlesex University

ISIDOR SHERMAN TOLPIN . . . . . Lynn, Mass.
Ph.G. Massachusetts College of Pharmacy
B.S., A.B., University of Southern California

HERMAN WEINSTEIN . . . . . Brooklyn, N. Y.
B.S., Long Island University

MORRIS WEISSMAN . . . . . New York, N. Y.
Long Island University
A.B., University of Texas

Alexander Edward Willensky . . . New York, N. Y.
A.B., University of Kansas

John James Wholey . . . . . Lawrence, Mass.
Dartmouth College
Middlesex University

Thaddeus Marcel Witka . . . . . Buffalo, N. Y.
University of Buffalo

Victor Ziman . . . . . New York, N. Y.
Syracuse University
A.B., University of North Carolina

Henry John Ziolkowski . . . . Hazelton, Pa.
B.S., Saint Francis College

Distribution by Colleges

Since some students attended more than one college in completing their preparation for admission to medical school, the number in this list will be greater than the total enrollment.

Alabama, University of	6
American International College	2
Amherst College	1
Arkansas, University of	2
Assumption College	2
Baldwin-Wallace College	1
Bates College	1
Bern, University of	1
Boston College	10
Boston University	6
Bowdoin College	2
Brooklyn College	1
Brown University	3
Bucknell University	2
Buffalo College	1
Buffalo, University of	2
Canisius College	1
Catholic University	3
Chicago, University of	1
Cincinnati, University of	1
Clark University	3
Colgate University	1
College of the City of New York	3
Columbia University	4
Cornell University	2
Dalhousie University	3
Dartmouth College	1
Davidson College	1
Denison University	1
Depauw University	1
Dickinson College	1
Duke University	1
Elon College	1
Florida, University of	1
Fordham University	16

Franklin and Marshall College	1
Georgetown University	5
George Washington University	1
Gettysburg College	1
Harvard University	5
Holy Cross College	3
Howard University	3
Illinois, University of	1
Iowa, State University of	6
Johns Hopkins University	1
Johnson S. Smith University	1
Kansas, University of	1
Kentucky, University of	2
Kentucky Wesleyan College	1
Lafayette College	1
Lewis Institute	1
Lincoln University	1
Long Island University	26
Louisiana State University	3
Loyola University	1
Manhattan College	4
Maryland, University of	3
Massachusetts College of Pharmacy	6
Massachusetts State College	6
Michigan, University of	3
Middlesex University	62
Minnesota, University of	1
Moravian College	1
New Hampshire, University of	1
New York University	13
Niagara University	1
North Carolina, University of	4
Northeastern University	2
Notre Dame, University of	1
Ohio State College	2
Ohio University	1
Pennsylvania State College	3
Pennsylvania, University of	1
Philadelphia College of Pharmacy	1
Pittsburgh, University of	3
Providence College	2

Puerto Rico, University of	1
Purdue University	2
Randolph-Macon Woman's College	1
Redlands, University of	1
Rhode Island State College	2
Richmond, University of	1
Riverside Junior College	1
Rutgers College	3
St. Anselm's College	1
St. Bonaventure College	5
St. Francis College	1
St. John's University	2
St. Louis University	1
San Bernardino Junior College	1
Southern California, University of	1
Syracuse University	4
Temple University	5
Texas, University of	1
Tougaloo College	1
Tufts College	16
Union College	4
Valparaiso University	1
Vermont, University of	3
Vienna, University of	1
Villanova College	12
Virginia, University of	1
Wayne University	1
Wesleyan University	1
West Virginia, University of	1
Wilberforce University	4
Wofford College	1

Geographical Distribution of Students

Connecticut	9
Delaware	1
Florida	1
Illinois	2
Indiana	1
Iowa	2

Kentucky	2
Louisiana	3
Maine	2
Maryland	3
Massachusetts	119
New Hampshire	1
New Jersey	27
New York	100
North Carolina	2
Ohio	2
Pennsylvania	16
Rhode Island	4
South Carolina	1
Vermont	1
District of Columbia	2
Germany	1
Haiti	1
Puerto Rico	1

Summary

Candidates for the Degree of Doctor of Medicine

Senior Class	67
Junior Class	54
Sophomore Class	76
Freshman Class	107
	304

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Preprofessional Courses, Arts and Sciences

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Two-year premedical requirement

SCHOOL OF VETERINARY MEDICINE, D.V.M. Degree
One-year preveterinary requirement

SCHOOL OF PODIATRY
Three-year Didactic and Clinical Course

SCHOOL OF PHARMACY
Two-year Comprehensive Course

WALTHAM — MASSACHUSETTS